

AMENDMENTS TO THE CLAIMS:

Please cancel claims 1-24 without prejudice or disclaimer, and substitute the following new claims 25-48 therefor as follows:

LISTING OF CLAIMS:

1-24 (Cancelled)

25. (New) An information providing apparatus for supplying motion data, stating the movements of a body unit of a robot apparatus, or an application program, managing recognition and/or action control, to a robot apparatus, over a network; said apparatus comprising:

content storage means having stored data or programs to be supplied to the robot apparatus;

receiving means for receiving an inquiry, pertinent to a service request and the information pertinent to the robot apparatus, from the robot apparatus;

analyzing means for analyzing said inquiry; and

transmitting means for transmitting data or programs, matched to services requested, to said robot apparatus.

26. (New) The information providing apparatus according to claim 25, wherein the apparatus communicates with the robot apparatus in accordance with a SOAP (Simple Object Access Protocol).

27. (New) The information providing apparatus according to claim 25, further comprising:

a database for supervising the supplementary information pertinent to data or programs stored in said content storage means; and

means for taking the matching between said inquiry and the supplementary information of said database, for preparing a list of data or programs that may be provided, and for returning said list to the robot apparatus.

28. (New) The information providing apparatus according to claim 27, further comprising:

means for returning, responsive to results of selection from said robot

apparatus for said list of data or programs that can be provided, a method for accessing said selected data or programs;

said transmitting means transmitting the data or programs, as requested, responsive to an access request matched to said accessing method from said robot apparatus.

29. (New) The information providing apparatus according to claim 27, wherein said supplementary information pertinent to said data or programs includes the information pertinent to services and the information pertinent to the robot apparatus.

30. (New) The information providing apparatus according to claim 25 or 29, wherein said information pertinent to

the robot apparatus includes at least a part of the following information:

- (1) an ID proper to a robot apparatus, uniquely allocated to each robot apparatus;
- (2) a robot sort ID uniquely allocated to each of the sorts of the robot apparatus;
- (3) a list of functions of the robot apparatus;
- (4) the information indicating the hardware architecture of the robot apparatus; and
- (5) a database list owned by the robot apparatus.

31. (New) An information providing apparatus for providing data or a program

to a robot apparatus, over a network; said apparatus comprising:

content storage means having stored data or programs to be supplied to the robot apparatus;

receiving means for receiving an inquiry, pertinent to a service request and the information pertinent to the robot apparatus, from the robot apparatus;

analyzing means for analyzing said inquiry; and

transmitting means for transmitting data or programs, matched to services requested, to said robot apparatus;

said information pertinent to the robot apparatus at least including a list of functions of said robot apparatus,

 said apparatus further comprising:

 means for specifying the functions needed for said robot apparatus to render services; and

 means for comparing the needed functions specified by said function specifying means to said list of functions of the robot apparatus for specifying the functions in deficit in said robot apparatus, among said needed functions;

 said transmitting means transmitting the data or programs for replacing the functions in deficit by functions usable by said robot apparatus.

32. (New) The information providing apparatus according to claim 25, wherein

 the information pertinent to said robot apparatus includes at least a list of functions of the robot apparatus, and

 said information providing apparatus further comprising:

 object storage means for storage of functional objects utilized by said robot apparatus;

 means for specifying the functions needed for said robot apparatus to render services;

 means for comparing the needed functions specified by said function specifying means to said list of functions of the

robot apparatus for specifying the functions in deficit in said robot apparatus, among said needed functions; and

retrieving means for retrieving an object of the function in deficit, matched to said function in deficit, from said object storage means;

said transmitting means transmitting said object of the function in deficit,

along with the data or programs matched to the requested services, to said robot apparatus.

33. (New) An information providing method for supplying motion data, stating the movements of a body unit of a robot apparatus, or an application program, managing recognition and/or action control, to a robot apparatus, over a network; said method comprising:

a receiving step of receiving, from said robot apparatus, an inquiry containing the information pertinent to a service request and the information pertinent to said robot apparatus;

an analysis step of analyzing said inquiry; and

a transmitting step of transmitting the data or program, matched to the requested service, to said robot apparatus.

34. (New) The information providing method according to claim 33, wherein communication with the robot apparatus is by SOAP (Simple Object Access Control).

35. (New) The information providing method according to claim 33, further comprising:

a step of supervising the supplementary information pertinent to each data or program as a database; and

a step of taking the matching of said inquiry and the supplementary information of said database, formulating a list of the data or programs that can be provided, and returning the list to the robot apparatus.

36. (New) The information providing method according to claim 35, further comprising:

a step of returning, responsive to the results of selection from said robot

apparatus for said list of the data or programs that can be provided, a method for accessing the data or programs selected;

said transmitting step transmitting data or the program as requested, responsive to the access request complying with said access method from said robot apparatus.

37. (New) The information providing method according to claim 35, wherein said supplementary information pertinent to said data or programs includes the information pertinent to services and the information pertinent to the robot apparatus.

38. (New) The information providing method according to claim 33 or 37, wherein said information pertinent to

the robot apparatus includes at least a part of the following information:

- (1) an ID proper to a robot apparatus, uniquely allocated to each robot apparatus;
- (2) a robot sort ID uniquely allocated to each of the sorts of the robot apparatus;
- (3) a list of functions of the robot apparatus;
- (4) the information indicating the hardware architecture of the robot apparatus; and
- (5) a database list owned by the robot apparatus.

39. (New) An information providing method for providing data or a program to a robot apparatus, over a network, said method comprising:

a receiving step of receiving, from said robot apparatus, an inquiry containing the information pertinent to a service request and the information pertinent to said robot apparatus;

an analysis step of analyzing said inquiry; and
a transmitting step of transmitting the data or program, matched to the requested service, to said robot apparatus;

said information pertinent to the robot apparatus including at least a list of functions of the robot apparatus,

said information providing method further comprising:

a step of specifying the functions needed for said robot apparatus to render services; and

a step of comparing the needed functions specified by said function specifying means to said list of functions of the robot apparatus for specifying the functions in deficit in said robot apparatus, among said needed functions;

said transmitting step transmitting the data or programs for substituting the functions usable by said robot apparatus for the functions in deficit.

40. (New) The information providing method according to claim 33, wherein

the information pertinent to said robot apparatus includes at least a list of functions of the robot apparatus, and

said information providing method further comprising:

a step of specifying the functions needed for said robot apparatus to render services;

a step of comparing the needed functions as specified by said needed function specifying step to said list of functions of the robot apparatus for specifying the functions in deficit in said robot apparatus, among said needed functions; and

a retrieving step of retrieving an object of the function in deficit, matched to said function in deficit, from object storage means having stored therein functional objects utilized by said robot apparatus;

said transmitting step transmitting said object of the function in deficit, along

with the data or programs matched to the requested services, to said robot apparatus.

41. (New) An information providing system including a robot apparatus and an information providing apparatus for supplying motion data, stating the movements of a body unit of said robot apparatus, or an application program, managing recognition and/or action control, to a robot apparatus, over a network; said information providing apparatus comprising:

content storage means having stored data or programs to be supplied to the robot apparatus;

receiving means for receiving an inquiry, pertinent to a service request and the information pertinent to the robot apparatus, from the robot apparatus;

analyzing means for analyzing said inquiry; and

transmitting means for transmitting data or programs, matched to services requested, to said robot apparatus.

42. (New) The information providing method according to claim 41, wherein the method communicates with the robot apparatus in accordance with a SOAP (Simple Object Access Protocol).

43. (New) The information providing method according to claim 41, further comprising:

a database for supervising the supplementary information pertinent to data or programs stored in said content storage means; and

means of taking the matching between said inquiry and the supplementary information of said database, for preparing a list of data or programs that may be provided, and for returning said list to the robot apparatus.

44. (New) The information providing system according to claim 41, further comprising:

means for returning, responsive to results of selection from said robot apparatus for said list of data or programs that can be provided, a method for accessing said selected data or programs;

said transmitting means transmitting the data or programs, as requested, responsive to an access request matched to said accessing method from said robot apparatus.

45. (New) The information providing method according to claim 43, wherein said supplementary information pertinent to said data or programs includes the information pertinent to services and the information pertinent to the robot apparatus.

46. (New) The information providing system according to claim 41 or 45, wherein said information pertinent to the robot apparatus includes at least a part of the following information:

(1) an ID proper to a robot apparatus, uniquely allocated to each robot apparatus;

(2) a robot sort ID uniquely allocated to each of the sorts of the robot apparatus;

(3) a list of functions of the robot apparatus;

(4) the information indicating the hardware architecture of the robot apparatus; and

(5) a database list owned by the robot apparatus.

47. (New) The information providing system according to claim 41, wherein

said information pertinent to the robot apparatus includes at least a list of functions of the robot apparatus, and

said information providing apparatus further comprising:

means for specifying the functions needed for said robot apparatus to render services; and

means for comparing the needed functions specified by said function specifying means to said list of functions of the robot apparatus for specifying the functions in deficit in said robot apparatus, among said needed functions;

said transmitting means transmitting the data or programs for substituting the functions usable by said robot apparatus for said functions in deficit.

48. (New) The information providing system according to claim 41, wherein

the information pertinent to said robot apparatus includes at least a list of functions of the robot apparatus, and

said information providing apparatus further comprising:

object storage means having stored therein the functional objects utilized by said robot apparatus;

means for specifying the functions needed for said robot apparatus to render services;

means for comparing the needed functions specified by said function specifying means to said list of functions of the robot apparatus for specifying the functions in deficit in said robot apparatus, among said needed functions; and

retrieving means for retrieving an object of the function in deficit, matched to said function in deficit, from said object storage means;

said transmitting means transmitting said object of the function in deficit, along with the data or programs matched to the requested services, to said robot apparatus.